



SEQUENCE LISTING

<110> Xiao, Yingxao
Feng, Xin-Hua

<120> Gene expression suppression agents

<130> 132848-01US

<140> US 10/552,909

<141> 2005-10-13

<160> 9

<210> 1

<211> 27

<212> DNA

<213> Human

<220>

<221> primer_bind

<223> Primer to amplify upstream promoter containing Box D in the Human 5S RNA gene

<300>

<310> PCT WO 2004/106488 A2

<311> 2003-05-12

<312> 2004-12-09

<400> 1

aacggatcca aaacgctgcc tccgcga 27

<210> 2

<211> 25

<212> DNA

<213> Human

<220>

<221> primer_bind

<223> Downstream reverse primer used to amplify the upstream promoter containing Box D in the Human 5S RNA gene. The sequence contains a PstI site at 7 bp upstream of the transcription site.

<400> 2

tagacgctgc aggaggcgcc tggct 25

<210> 3
<211> 269
<212> DNA
<213> Human

<220>
<221> promoter
<223> Calculated BamHI-PstI fragment of the upstream promoter containing Box D in the Human 5S gene. Cloned into pBluescript-KS to give plasmid pPPVI.

<400> 3
ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca ggatcgtggg 60
ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggggtcccc gatccgagcc 180
ccgcggcccc gggctggcgg tgcgggctgc aatccggcgg gcacggccgg ccgggctggg 240
ctcttggggc agccaggcgc ctccttcag 269

<210> 4
<211> 84
<212> DNA
<213> Human

<220>
<221> terminator
<223> Comprises Box A, C and terminator of the human 5S RNA gene. Serves as a top strand to anneal with SEQ ID NO: 5 to create a double-stranded DNA molecule.

<400> 4
agaagacgaa gctaagcagg gtcgggcctg gttagtactt ggatgggaga ccgcctggga 60
ataccgggtg ctgtaggctt tttg 84

<210> 5
<211> 88
<212> DNA

<213> Human

<220>

<221> terminator

<223> Comprises Box A, C and terminator of the human 5S RNA gene. Serves as a top strand to anneal with SEQ ID NO: 4 to create a double-stranded DNA molecule.

<400> 5

tcgacaaaaa gcctacagca cccggtattc ccaggcggtc tcccatccaa gtactaacca 60

ggccccgaccc tgcttagctt cgtcttct 88

<210> 6

<211> 367

<212> DNA

<213> Human

<220>

<221> promoter

<223> A BamHI-SalI fragment of plasmid pPPV2 containing the upstream promoter containing Box D, A, C and the terminator of the Human 5S gene.

<400> 6

ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcggtccca ggatcgtggg 60

ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120

cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggggtcccc gatccgagcc 180

ccgcggcccc gggctggcgg tgcgggctgc aatccggcgg gcacggccgg ccgggctggg 240

ctcttggggc agccaggcgc ctctttcagg aattcgatag aagacgaagc taagcagggt 300

cgggcctggt tagtacttgg atgggagacc gcctgggaat accgggtgctg taggctttt 360

tgtcgac 367

<210> 7

<211> 51

<212> DNA

<213> Human

<220>

<221> misc_RNA

<222> Positioned with PstI at the 5' end and BbsI at the 3' end.
<223> Contains designed siRNA sequence. Serves as a top strand to anneal with SEQ ID NO: 8 to create a double-stranded DNA molecule. The "n" bases represent any of the a, g, c, or t bases.

<400> 7
gcnnnnnnnnn nnnnnnnnnn ntttcggnnn nnnnnnnnnn nnnnnntttt t 51

<210> 8
<211> 59
<212> DNA
<213> Human

<220>
<221> misc_RNA
<222> Positioned with PstI at the 5' end and BbsI at the 3' end.
<223> Contains designed siRNA sequence. Serves as a top strand to anneal with SEQ ID NO: 7 to create a double-stranded DNA molecule. The "n" bases represent any of the a, g, c, or t bases.

<400> 8
agctaaaaan nnnnnnnnnn nnnnnnnncc gaaannnnnn nnnnnnnnnn nnnngctgca 59

<210> 9
<211> 399
<212> DNA
<213> Human

<220>
<221> misc_structure
<222> A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA design.
<223> The second stretch of the 19 "n" bases are complementary and reverse to the first stretch. The "n" bases represent any of the a, g, c, or t bases.

<400> 9
ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgctcca ggatcgtggg 60
ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgatgt ggtggaagct 120
cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggggtcccc gatccgagcc 180
ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240

ctcttggggc agccaggcgc ctccttcagc nnnnnnnnnn nnnnnnnnnt ttcggnnnnn 300
nnnnnnnnnn nnnnttttta gctaagcagg gtcgggcctg gttagtactt ggatgggaga 360
ccgcctggga ataccggtg ctgtaggctt tttgtcgac 399